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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,964	01/05/2004	Makoto Itoi	Q78965	1863
23373	7590 08/20/2004		EXAMINER	
	E MION, PLLC	WRIGHT, ANDREW D		
SUITE 800	ISYLVANIA AVENUE,	N.W.	ART UNIT	PAPER NUMBER
WASHING	TON, DC 20037	3617		
			DATE MAILED: 08/20/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
A-m - A - A - A	10/750,964	ITOI, MAKOTO				
Office Action Summary	Examiner	Art Unit				
	Andrew Wright	3617				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ely filed will be considered timely. the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL. 2b)⊠ This action is non-final.					
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.				
Disposition of Claims	·					
4) ☐ Claim(s) 1 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on 05 January 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	a) \square accepted or b) \square objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1/5/04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

Application/Control Number: 10/750,964 Page 2

Art Unit: 3617

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hoshiba 2. (US 6,102,755) in view of Graham et al. (US 6,587,765). Hoshiba shows an electronic controlled drive apparatus for an outboard engine. Hoshiba shows control means (65) with lever (67), target value calculating means (59), throttle actuator (73), and shift actuator (71), and determination means (79, 83). Hoshiba teaches that the apparatus sense when a shift is occurring, and the throttle valve is opened beyond normal idle position to prevent stalling (lines 64-67 of column 1, and lines 37-50 of column 6). The correction throttle opening degree setting means is the algorithm in the ECU (59) that changes the throttle opening based upon the sensed shift. Hoshiba discloses a wire (68) and shift rod (69) actuator for the shift actuator. Hoshiba does not disclose that the target shift position is determined by the target value calculating means. Hoshiba does disclose that the throttle is the "fly-by-wire" type that has a target value calculated by the ECU (59). It is well known and common for both the throttle and shift control to be flyby-wire type with target values determined by an ECU. Graham shows such a configuration for a marine engine control. Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Hoshiba by

Application/Control Number: 10/750,964 Page 3

Art Unit: 3617

making the shift fly-by-wire also, by using the ECU to determine the target shift position and then sending a signal to a shift actuator. The motivation would be to reduce the size and weight of the system by eliminating the cables and shift rod shown by Hoshiba.

Conclusion

3. Any inquiry concerning this communication should be directed to examiner Andrew D. Wright at telephone number (703) 308-6841. The examiner can normally be reached Monday-Friday from 9:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, S. Joe Morano, can be reached at (703) 308-0230. The fax number for official communications is 703-872-9306. The fax number directly to the examiner for unofficial communications is 703-746-3548.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Andrew D. Wright Patent Examiner Art Unit 3617